

Applicant: Hoeffler et al.
Application No.: 09/245,615
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32. (Reiterated) A kit according to claim 31 wherein the instructions are for identifying antibodies to a specific antigen, comparing protein expression in two or more populations of cells, characterizing a cell based on the pattern of protein expression produced thereby, or determining the effect of varying binding conditions on the binding affinity of the antibodies.

33. (Reiterated) A kit according to claim 31 wherein the antibodies are monoclonal antibodies, polyclonal antibodies or antibody fragments.

34. (Reiterated) A kit according to claim 33 wherein the antibody fragments are single chain antibodies.

35. (Reiterated) A kit according to claim 31 wherein the antibodies are recombinant antibodies.

36. (Reiterated) A kit according to claim 31 further comprising reagents for detecting an antigen and instructions for use thereof.

37. (Amended) A kit comprising:

a² (a) an array of a plurality of antibodies located at discrete locations on a solid surface; and

(b) instructions for using the array; wherein the instructions are for diagnosing a disorder, characterizing a cell based on the pattern of protein expression produced thereby, or comparing protein expression in two or more populations of cells.

38. (Reiterated) A kit according to claim 37 further comprising reagents for detecting an antigen and instructions for use thereof.

39. (Reiterated) A kit according to claim 37 wherein the antibodies are recombinant antibodies.

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40. (Reiterated) A kit according to claim 37 wherein the antibodies are single chain antibodies.

Please add the following new claims:

-- 51. (New) The kit according to claim 31 wherein the source of the antibodies at each discrete location is known. --

-- 52. (New) The kit according to claim 31 wherein the array is a microarray having the locations of the antibodies arranged in an ordered matrix that is spatially addressable. --

-- 53. (New) The kit according to claim 31 wherein the array is a 96-well microtiter plate. --

Q³ -- 54. (New) The kit according to claim 31 wherein the space between the discrete locations is treated to minimize non-specific binding to the solid support. --

-- 55. (New) The kit according to claim 37 wherein the source of the antibodies at each discrete location is known. --

-- 56. (New) The kit according to claim 37 wherein the array is a microarray having the locations of the antibodies arranged in an ordered matrix that is spatially addressable. --

-- 57. (New) The kit according to claim 37 wherein the array is a 96-well microtiter plate. --

-- 58. (New) The kit according to claim 37 wherein the space between the discrete locations is treated to minimize non-specific binding to the solid support. --